

## Product datasheet for **RR205041**

### Sec61a1 (NM\_199256) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sec61a1 (NM_199256) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sec61a1
Synonyms:	Sec61a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR205041 representing NM\_199256  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGATCAAATTTCTGGAAGTCATCAAGCCATTCTGTGCATCTTGCCGAAATTCAGAAGCCAGAGA  
 GAAAGATTCAGTTAAGGAGAAGGTGTTGTGGACGGCCATCACCCCTTTCATCTTCTTAGTATGCTGCCA  
 GATTCCCCTGTTTGGCATTGCTTTCAGACTCAGCTGACCCCTTCTACTGGATGCGAGTGATTCTGGCC  
 TCTAACAGAGGTACCTTGATGGAGCTGGGTATCTCTCCTATTGTCACGTCGGCCTTATCATGCAGCTCT  
 TAGCTGGTGCCAAGATAATTGAAGTTGGGGACACCCCGAAAGACCGAGCTCTTCAATGGAGCCAAAA  
 GTTGTGGGAATGATCATCACTATCGGTGAGTCCATTGTGTACGTGATGACGGGCATGTACGGGACCCCT  
 TCAGAGATGGGTGCTGGAATCTGCCTGCTGATCACCATTAGCTCTTGTGTGGCTTAATTGCCTAC  
 TTTTGGATGAACCTCTGCAGAAAGGATATGGCTTGGGCTCTGGCATCTCTCTTTCATTGCGACTAATAT  
 CTGTGAGACCATTGTATGGAAGGCATTAGCCCCACCCTGTCAACACTGGCCGAGGGATGGAATTTGAA  
 GCGCCATCATTGCGCTGTTCCACTGCTGGCCACCCGCACAGACAAGGTCGAGCCCTTCGAGAGGCAT  
 TCTACCGCCAGAACCTCCCTAACCTCATGAACCTGATTGCCACCATCTTCGTCTTTGCTGTTGTCATCTA  
 TTTCCAGGGCTTCCGAGTGGACCTTCCAATCAAGTCGGCGCTTACCGAGGCCAGTACAATACCTACCCC  
 ATCAAGCTCTTCTACACCTCCAACATCCCATCATCTTGACAGTCTGCTCTGGTGTCCAACCTGTATGTCA  
 TCTCCAGATGCTGTGACGACGTTTTCAGTGGCAACCTGCTGGTTAGCCTGCTGGGCACCTGGTCGGATAC  
 GTCATCTGGGGGCCAGCCCGTCTTACCCAGTTGGTGGCCTGTGTTACTACCTGCTCTCCCGAATCA  
 TTCGGCTCAGTGTGGAGACCCTGTCCATGCGGTGCTGTACATTGTATTCATGCTGGGTTCTCTGTGCAT  
 TCTTTTCCAAAACATGGATCGAAGTTTCGGGTTCTTCTGCCAAAGATGTTGCCAAGCAGCTGAAGGCA  
 GCAGATGGTGATGAGAGGCCACAGGGAGACCTCCATGGTGCATGAGCTCAACCGGTACATCCCCACAGCT  
 GCAGCCTTCGGTGGGCTGTGCATTGGGGCCCTCTCTGCTCGGCTGATTTCTGGGTGCTATCGGGTCTG  
 GCACCGGGATCTGCTGGCGGTACCATCATCTACCAGTACTTTGAGATCTTCGTCAAAGAGCAGAGCGA  
 GGTGGGCAGCATGGGAGCCCTTCTCTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR205041 representing NM\_199256  
 Red=Cloning site Green=Tags(s)

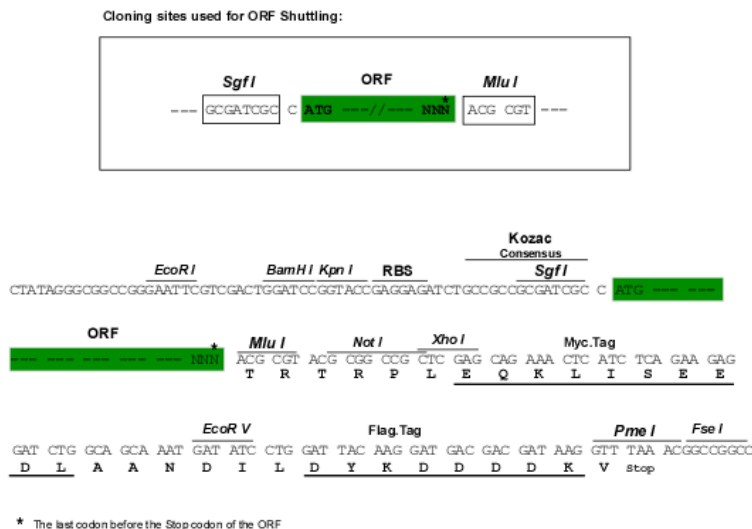
MAIKFLEVIKPFVILPEIQKPERKIQFKEKVLWTAITLFIPLVCCQIPLFGIMSSDSADPFYWMRVILA  
 SNRGTLMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIIITIGQSIVYVMTGMYGDP  
 SEMGAGICLLITIQLFVAGLIVLLLDELLQKGYGLGSGISLFIATNICETIVWKAFTPTVNTGRMEFE  
 GAIIALFHLLATRTDKVRALREAFYRQNLPLMNLIAIFVFAVVIYFQGFVDLPIKSARYRGQYNTYP  
 IKLFYTSNIPIILQSALVSNLYVISQMLSARFSGNLLVSLGTWSDTSSGGPARAYPVGGLCYLSPPE  
 FGSVLEDPVHAVVYIVFMLGSAFFSKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTA  
 AAFGGCLIGALSVLADFLGAIGSGTGILLAVTIIYQYFEIFVKEQSEVGSMLGALLF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

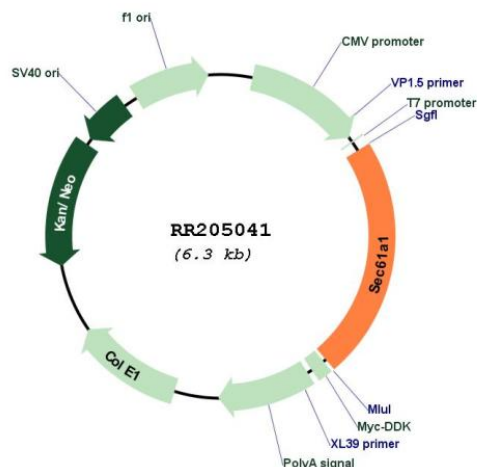
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



## ACCN:

NM\_199256

## ORF Size:

1428 bp

## OTI Disclaimer:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

## OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

## Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_199256.2](#), [NP\\_954865.1](#)

**RefSeq Size:** 3061 bp

**RefSeq ORF:** 1431 bp

**Locus ID:** 80843

**UniProt ID:** [P61621](#)

**Cytogenetics:** 4q34

**MW:** 52.3 kDa

**Gene Summary:** involved in protein translocation across the endoplasmic reticulum membrane [RGD, Feb 2006]